



## Hurricane Harvey-Texas

### ESF-10

### Situation Report #23

**Subject:** SITREP #23  
**To:** Agency Leads  
**Thru:** Maggie Waldon, PSC  
**From:** Unified Command  
**Date:** 9/21/2017  
**Reporting Period:** 9/21/2017

#### INTRODUCTION

##### Background

Hurricane Harvey made landfall at 2300 ET, August 26<sup>th</sup>, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases, vessels and orphan containers.

#### CURRENT ACTIVITIES

##### Operations Section

On September 21, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Hazard Evaluation Teams continued working throughout the Bravo Branch. ER/Orphan Container Recovery Teams continued working throughout the Bravo Branch. Oil/Vessel Discharge Recovery Teams continued working throughout the Alpha and Charlie Branches. Vessel Removal Teams continued working throughout the Alpha and Charlie Branches. Staging Area Team continued working throughout the Bravo Branch.

**Mission Assignment:**

Request ESF-10 assistance to the State of Texas in support of assessment and response operations to actual or threatened hazardous materials and oil releases/discharges as covered under Category B (Emergency Protective Services) for Public Assistance. The assistance includes response to releases/discharges from fixed facilities, vehicles, intermodal container (to include orphaned containers) and vessels (mobile) sources to remove the threat of imminent danger or contamination to the public that could be caused by any release.

| <b>Table 1: Mission Assignments as of 9/21/17</b> |  |                        |                 |
|---|--|------------------------|-----------------|
| <b>Funding Sources</b>                            | <b>Description</b>   | <b>Funding Ceiling</b> | <b>End Date</b> |
| MA 4332DR-TX-EPA-03                               | As requested by the State of Texas, provide assessment and emergency response support to the State including water/wastewater treatment plant assessments, aerial assessments  | \$10,092,000           | 9/22/2017       |
| USCG MA D17BA1                                    | USCG will provide oil and hazardous materials field response which may include but not limited to the placement of vessels removed of pollutions to a pre-determined staging area; providing specialized expertise; conducting damage assessment of oil/hazmat waste impact via air and/or water; contractor oversight; evaluating hazards; and/or response, removal, or disposal of: actual and potential oil discharges, and releases of hazardous materials, pollutants and contaminations, and remove pollutants from vessels in or upon navigable waters and adjoining shoreline. | \$20,000,000           | 9/21/2017       |

**Liaison Section UPDATED**

The Liaison Officer shared highlights of Aransas County recovery meeting at the Command and General Staff meeting. The County reported 643 destroyed structures, 1162 structures with major damage, and expressed a need for crowbars, shovels, and ceiling fans donations. Also, the outdoor burning ban remains in effect, but one can submit paper work through TCEQ to gain approval to burn materials.

| <b>Table 2: Field Teams on 9/21/2017 – per IAP #21 UPDATED</b> |              |              |                |              |
|--|--------------|--------------|----------------|--------------|
| <b>Teams</b>   | <b>Alpha</b> | <b>Bravo</b> | <b>Charlie</b> | <b>Total</b> |
| Hazard Evaluation  | 0            | 1            | 0              | 1            |
| Hazard Evaluation Debris                                       | 0            | 8            | 0              | 8            |
| Oil Discharge Assessment                                       | 0            | 1            | 0              | 1            |
| ER/Orphan Container Recovery                                   | 0            | 1            | 0              | 1            |
| Oil/Vessel Discharge Recovery                                  | 5            | 1            | 0              | 6            |
| Staging Areas  | 0            | 1            | 0              | 1            |
| Air Operations   | 0            | 0            | 0              | 0            |
| Air Monitoring   | 0            | 0            | 0              | 0            |
| Vessel Removal   | 1            | 0            | 1              | 2            |
| <b>Totals</b>  | <b>6</b>     | <b>13</b>    | <b>1</b>       | <b>20</b>    |

| <b>Table 3: Daily/Cumulative Summary of Hazard Evaluations/Recovery</b> |                  |   |                  |                   |
|---|------------------|---|------------------|-------------------|
| <b>Status</b>   | <b>Opened</b>    |   | <b>Closed</b>    |                   |
|   | <b>9/21/2017</b> | <b>Number of Targets Remaining Open</b> | <b>9/21/2017</b> | <b>Cumulative</b> |
| Alpha Branch  | 0                | 0                                       | 0                | 106               |
| Bravo Branch  | 0                | 0                                       | 0                | 402               |
| Charlie Branch  | 0                | 0                                       | 0                | 135               |
| NRC Reports   | 0                | 0                                       | 0                | 5                 |
| <b>Totals</b>   | <b>0</b>         | <b>0</b>                                | <b>0</b>         | <b>648</b>        |

**Note-** Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

| <b>Table 4: Waste Received at All Staging Pads to Date</b> |                      |                                      |                                      |                  |                                    |  |
|--|----------------------|--------------------------------------|--------------------------------------|------------------|------------------------------------|--|
| <b>Date</b>  | <b>CONTAINERS</b>    |                                      |                                      |                  | <b>TOTALS</b>                      |  |
|  | <b>Drums [55gal]</b> | <b>Small Containers [&lt; 55gal]</b> | <b>Large Containers [&gt; 55gal]</b> | <b>Cylinders</b> | <b>Total Items Collected Today</b> | <b>Total Items Collected Project to Date</b> |
| 9/21/2017  | 4                    | 0                                    | 6                                    | 0                | 10                                 | 987  |
| <b>Totals</b>  | <b>427</b>           | <b>397</b>                           | <b>43</b>                            | <b>120</b>       |                                    |  |

**Table 5: Items/Materials Processed for Disposal at Bravo Branch Orphan Container Pad**

| Date  | Drums<br>[55gal] | Small<br>Containers<br>[< 55gal] | Large<br>Containers<br>[> 55gal] | Cylinders | Solid<br>Waste/Roll<br>Off Box | Total Scrap<br>Metal<br>Recycled<br>(lbs) |
|---|------------------|----------------------------------|----------------------------------|-----------|--------------------------------|---|
| Total<br>Present at<br>all Staging<br>Pads<br>(9/21/17) | 427              | 397                              | 43                               | 120       | 3                              | 5000                                      |
| <b>Processed for Disposal</b>                           |                  |                                  |                                  |           |                                |   |
| 9/17/2017   | 80               | 31                               | 8                                | 18        | 1                              |   |
| 9/18/2017   | 0                | 0                                | 0                                | 0         | 0                              |   |
| 9/19/2017   | 37               | 77                               | 0                                | 0         | 0                              |   |
| 9/20/2017   | 56               | 133                              | 11                               | 34        | 0                              |   |
| 9/21/2017   | 0                | 0                                | 3                                | 0         | 1                              |   |
| Remaining<br>to be<br>Processed<br>for<br>Disposal      | 254              | 156                              | 21                               | 68        | 1                              |   |
| Percent<br>Remaining                                    | 59%              | 39%                              | 49%                              | 57%       | 33%                            |   |

**Table 6: Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)**

| Status         | Opened    |  | Closed    |            |
|----------------|-----------|--|-----------|------------|
|                | 9/21/2017 | Number of<br>Facilities/Spills<br>Remaining Open | 9/21/2017 | Cumulative |
| Alpha Branch   | 0         | 0  | 0         | 33         |
| Bravo Branch   | 0         | 1  | 0         | 77         |
| Charlie Branch | 0         | 2  | 1         | 24         |
| NRC Reports    | 0         | 7  | 1         | 122        |
| <b>Totals</b>  | <b>0</b>  | <b>10</b>  | <b>2</b>  | <b>256</b> |

**Note-** Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

| Table 7: Daily/Cumulative Summary of VESSELS |           |                                  |           |            |
|--|-----------|----------------------------------|-----------|------------|
| Status                                       | Opened    |                                  | Closed    |            |
|  | 9/21/2017 | Number of Vessels Remaining Open | 9/21/2017 | Cumulative |
| Alpha Branch                                 | 5         | 159                              | 19        | 319        |
| Bravo Branch                                 | 0         | 27                               | 1         | 47         |
| Charlie Branch                               | 1         | 36                               | 0         | 29         |
| NRC Reports                                  | 0         | 1                                | 0         | 14         |
| <b>Totals</b>                                | <b>6</b>  | <b>223</b>                       | <b>20</b> | <b>409</b> |

**Note-** Open means the target is yet to be recovered. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

#### OTHER NOTABLE ACTIVITIES

##### Alpha Branch

Oil Discharge Recovery Teams continued to assess targets throughout the area of responsibility. Five vessels were placarded at Island Moorings in Port Aransas. A sorbent boom was observed at Rockport Marina.

##### Bravo Branch

Air Operations have concluded.

##### Charlie Branch

The Hazard Evaluation Team investigated one target at Orange, a sunken wooden boat that is being removed by TGLO. Six vessels are left for recovery.

#### Participating Agencies as of 09/21/2017 updated

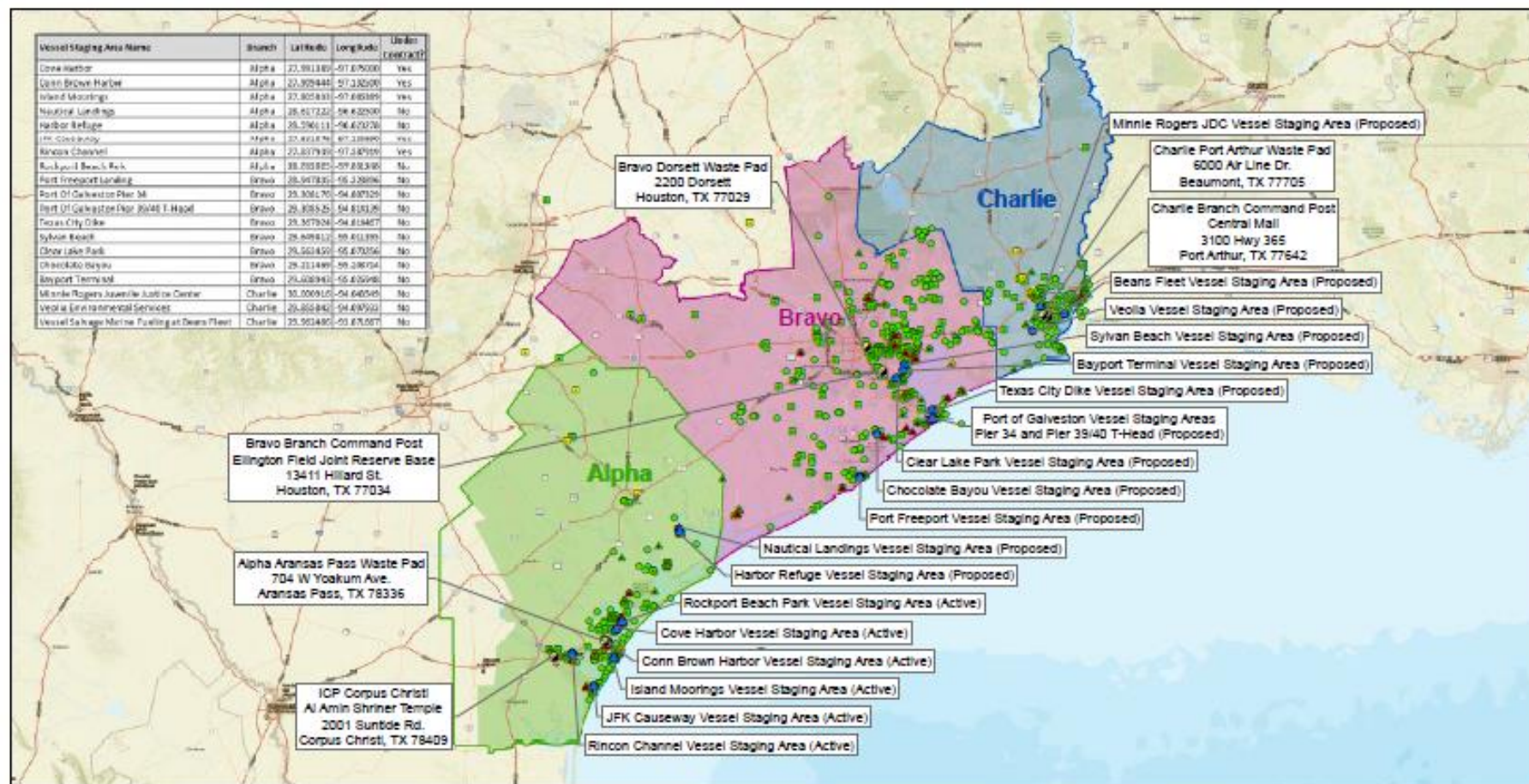
- Texas Commission on Environmental Quality (TCEQ)
- Texas General Land Office (TGLO)
- US Environmental Protection Agency (USEPA)
- US Coast Guard (USCG)

**Personnel On Site as of 09/21/2017**

| <b>Agency</b> | <b>ICP</b> | <b>Alpha Branch</b> | <b>Bravo Branch</b> | <b>Charlie Branch</b> | <b>Totals</b> |
|---------------|------------|---------------------|---------------------|-----------------------|---------------|
| USEPA         | 15         | 0                   | 11                  | 6                     | 32            |
| USCG          | 22         | 22                  | 23                  | 12                    | 79            |
| TCEQ          | 1          | 0                   | 15                  | 0                     | 16            |
| TGLO          | 1          | 2                   | 0                   | 1                     | 4             |
| Contractors   | 8          | 2                   | 1                   | 8                     | 19            |
| <b>Totals</b> | <b>47</b>  | <b>26</b>           | <b>50</b>           | <b>27</b>             | <b>150</b>    |

**USCG Personnel Assigned of 09/21/2017**

| <b>ICP</b> | <b>Alpha Branch</b> | <b>Bravo Branch</b> | <b>Charlie Branch</b> | <b>Total</b> |
|------------|---------------------|---------------------|-----------------------|--------------|
| 21         | 22                  | 30                  | 14                    | <b>87</b>    |



**Legend**

**Federally Declared Counties:** ■ in Alpha ■ in Bravo ■ in Charlie

● Incident Command Post (ICP) /Staging Area

● Vessel Staging Location

**Facility/Spill Assessment**

- Open
- Open - Cleanup in Progress
- Closed

**Haz/Eval Items**

- Open
- Open
- Closed

**Vessels**

- ▲ Open
- ▲ Open - Cleanup in Progress
- ▲ Closed

Access Denied/  
Leave in Place/  
Refer to Other Agency

**USA EPA REGION 6**

**SITREP Map**

**Alpha, Bravo, Charlie**

Hurricane Harvey Response

September 21, 2017

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EPA GIS

Printed: 8:04:27 PM 9/21/2017